



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Friday July 6th, 1990

RE: S-18
Project # 2400-11-01-0000
Lab ID: 9006G354-003
Sample Date: 06/15/90
Date Received: 06/16/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	6	U
1,1,2-Trichloroethane	BDL	6	U
Benzene	BDL	6	U
Trans-1,3-Dichloropropene	BDL	6	U
Bromoform	BDL	6	U
Tetrachloroethene	4	6	J
1,1,2,2-Tetrachloroethane	BDL	6	U
Toluene	4	6	J
Chlorobenzene	BDL	6	U
Ethylbenzene	BDL	6	U
Xylene (total)	BDL	6	U
Acrolein	BDL	580	U
Acrylonitrile	BDL	120	U
Dichlorodifluoromethane	BDL	23	U
Trichlorofluoromethane	BDL	12	U
Bis(chloromethyl)ether	BDL	23	U
2-Chloroethylvinylether	BDL	12	U



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Date: Friday July 6th, 1990

RE: S-18
Project # 2400-11-01-0000
Lab ID: 9006G354-003
Sample Date: 06/15/90
Date Received: 06/16/90
Units: UG/KG

Tentatively Identified Compounds

1 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
TRICHLOROPROPANE	24.75	20 J



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July 19, 1990

Mr. Willy Pua
Roy F. Weston, Inc.
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Dear Mr. Pua:

Please find enclosed the analytical reports for the samples submitted to Weston/Gulf Coast Laboratories for analyses. They were identified as follows:

PROJECT NAME: AT & T/Bell Lab

RFW#: 9006G391

If you have any questions, please contact Sheryl Johnson at our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau
John Boudreau
Laboratory Manager

Michael J. Healy
Michael J. Healy
Project Manager

Jeff A. Kaczinski
Jeff A. Kaczinski
GC/MS Unit Leader

Diane L. Harper
Diane L. Harper
Wet Chemistry Unit Leader

Mani S. Iyer
Mani S. Iyer
Metals Unit Leader

cb

Enclosures



ROY F. WESTON, INC.
Lionville Laboratory

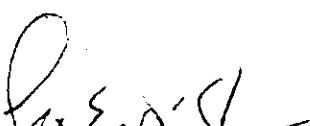
CLIENT: AT&T/BELL LAB
RFW #: 9006G391
W.O. #: 2400-11-01

SAMPLES RECEIVED: 06-20-90

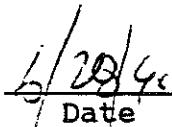
INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met for water samples.
2. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020), and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).



Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory



Date

ROY F. WESTON, INC.

GLOSSARY OF TERMS - INORGANIC REPORTS

DATA QUALIFIERS

- U - Indicates that the parameter was not detected at or above the reported limit. The associated numerical value is the sample detection limit.
- * - Indicates that the original sample result is greater than 4x the spike amount added. The USEPA-CLP has determined that spike results on samples where this occurs may be unreliable and, therefore, the control limits are not applicable.

ABBREVIATIONS

MB	- Method or preparation blank.
MS	- Matrix Spike.
MSD	- Matrix Spike Duplicate.
REP	- Sample Replicate.
LC	- Indicates a method LCS or Blank Spike.
NC	- Not calculable, result below the detection limit.

LABORATORY CHRONOLOGY AND HOLDTIME REPORT

The test code listed indicates the specific analysis or preparation procedure employed. The codes may be interpreted as follows:

MAAW	- Metals prep test for AA digestion, water matrix.
MAAS	- Metals prep test for AA digestion, soil matrix.
MICW	- Metals prep test for ICP digestion, water matrix.
MICS	- Metals prep test for ICP digestion, soil matrix.
M**TO-	This type of code indicates a total metal analysis (eg. MAGTO indicates an analysis for total silver).
M**SO-	This type of code indicates a soluble metal analysis. (eg. MAGSO indicates an analysis for soluble silver).
M**EP-	This type of code indicates an EPTOXICITY metals analysis (eg. MAGEP indicates an analysis for eptox silver).
I**TO-	This type of code indicates a non-metallic total analysis. There is also a complimentary soluble analysis for each of these codes (eg. ICNTO indicates an analysis for total cyanide).

A suffix of -R or -S following these codes indicates a replicate or spike analysis respectively.

Roy F. Weston, Inc. - Lionville Laboratory
INORGANIC ANALYTICAL DATA PACKAGE FOR
AT&T/BELL LAB

DATE RECEIVED: 06/20/90

RFW LOT #: 9006G391

CLIENT ID /ANALYSIS	RFW #	MTX	PREP #	COLLECTION EXTR/PREP	ANALYSIS
RIN #6					
CORROSIVITY	001	W	90LRR058	06/18/90	06/21/90
S-13					06/22/90
CORROSIVITY	004	S	90LRR058	06/18/90	06/21/90
					06/22/90

ROY F. WESTON INC.

INORGANICS DATA SUMMARY REPORT 06/26/90

CLIENT: AT&T/BELL LAB
WORK ORDER: 2400-11-01-0000

WESTON BATCH #: 9006G391

SAMPLE	SITE ID	ANALYTE	RESULT	UNITS	REPORTING LIMIT
-001	RIN #6	CORROSIVITY	6.35	u mm/yr	6.35
-004	S-13	CORROSIVITY	6.35	u mm/yr	6.35



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DATA QUALIFIERS

- u - Indicates an inorganic compound was analyzed for but not detected.
- U - Indicates an organic compound was analyzed for but not detected.
- J - Indicates an estimated value for either a TIC or an analyte that meets the identification criteria but the result is less than the specified detection limit.
- B - Indicates the compound was found in the blank and the sample.
- T - Indicates the compound was found in the TCLP extraction blank and the sample.
- E - Concentrations exceed calibration range of the instrument.
- I - Indicates Interference.
- BS - Indicates matrix analyses were conducted on reagent grade water.
- BSD - Blank Spike Duplicate
- BDL - Below Detection Limit
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- D - Indicates that surrogate/matrix spike recoveries were not obtained because the extract had to be diluted for analysis.
- DL - Indicates a secondary dilution
- NA - Not Applicable
- DF - Dilution factor
- X - Result is by calculation

NOTES:

Solid, sediment and sludge results are reported on a dry weight basis except when analyzed for Landfill disposal parameters (such as incineration or Illinois Green Sheet parameters). All other mg/kg results are reported on an "as received" basis.

Reporting limits are detection limits adjusted for sample size used, dilutions made, and in the case of dry weight results, the moisture content of the sample.

WESTON Analytics Use Only

Client AT&T Bell Lab
Work Order 2900-1101
Date Rec'd. _____ Date Due _____
RFW Contact Willy RIA
Client Contact/Phone _____

Custody Transfer Record/Lab Work Request

WESTON
www.weston.com/tips

Matrix:	W - Water	DS - Drum Solids
S - Soil	O - Oil	DL - Drum Liquids
SE - Sediment	A - Air	F - Fish
SO - Solid		X - Other

Special Instructions:

Regular Turnaround Time
3-4 weeks

RFW 21- A-5/88

7-115

WESTON Analytics Use Only

Client AT&T Bell Lab
Work Order 24001101
Date Rec'd. _____ Date Due _____
RFW Contact Willy PMA
Client Contact/Phone _____

Custody Transfer Record/Lab Work Request

WESTON
www.weston.com

Matrix:	W - Water	DS - Drum Solids
S - Soil	O - Oil	DL - Drum Liquids
SE - Sediment	A - Air	F - Fish
SO - Solid		X - Other

Special Instructions:

All Regular Turn Around Time
Only 313 - Complete Target List

RFW 21 A-5/88

A-5/B8

7-115

WESTON Analytics
Use Only

Samples Were:

1 Shipped or Hand-Delivered

**2 Ambient or Chilled
NOTES:**

3 Received Broken/ Leaking (Improperly Sealed)

Y

4 Properly Preserved
Y N
NOTES:

**5 Received Within
Holding Times**

COC Tape Was:
 1 Present on Outer
 Package Y N
 2 Unbroken on Outer
 Package Y N
 3 Present on Sample
 Y N
 4 Unbroken on Sample
 NOTES: Y N

| COC Record Was:

**1 Present Upon Receipt
of Samples Y N**

**Discrepancies Between
Sample Labels and COC
Record? Y N**



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 19th, 1990

RE: RIN #6
Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	0.010	u mg/L	0.010
COD	5	u mg/L	5
Ammonia, as Nitrogen	0.14	mg/L	0.10
Total Organic Carbon	1.0	u mg/L	1.0
TOC Test 2	1.0	u mg/L	1.0
pH	6.7	pH	+0.020
Phenol	0.0050	u mg/L	0.0050
Sulfide	0.25	u mg/L	0.25
Total Organic Halogen	0.010	u mg/L	0.010
Total Organic Halogen	0.010	u mg/L	0.010
Silver, Total	0.030	u mg/L	0.030
Arsenic, Total	0.016	u mg/L	0.016
Beryllium, Total	0.0020	u mg/L	0.0020
Cadmium, Total	0.0040	u mg/L	0.0040
Chromium, Total	0.020	u mg/L	0.020
Copper, Total	0.020	u mg/L	0.020
Mercury, Total	0.00020	u mg/L	0.00020



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RE: RIN #6
Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Nickel, Total	0.020	u mg/L	0.020
Lead, Total	0.050	u mg/L	0.050
Antimony, Total	0.50	u mg/L	0.50
Selenium, Total	0.0080	u mg/L	0.0080
Thallium, Total	0.30	u mg/L	0.30
Zinc, Total	0.070	mg/L	0.010



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Date: Thursday July 5th, 1990

RE: RIN #6

Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	10	U
Chloroethane	BDL	10	U
Methylene Chloride	BDL	5	U
Acetone	BDL	10	U
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethylene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	BDL	5	U
Acrolein	BDL	500	U
Acrylonitrile	BDL	100	U
Dichlorodifluoromethane	BDL	20	U
Trichlorofluoromethane	BDL	10	U
Bis(chloromethyl)ether	BDL	20	U
2-Chloroethylvinylether	BDL	10	U



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Date: Thursday July 5th, 1990

RE: RIN #6
Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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Attn: Mr. Willy Pua

Date: Tuesday July 10th, 1990
RE: RIN #6
Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

SEMIVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	11	U
bis(2-Chloroethyl)ether	BDL	11	U
2-Chlorophenol	BDL	11	U
1,3-Dichlorobenzene	BDL	11	U
1,4-Dichlorobenzene	BDL	11	U
1,2-Dichlorobenzene	BDL	11	U
bis(2-Chloroisopropyl)ether	BDL	11	U
N-Nitroso-Di-n-propylamine	BDL	11	U
Hexachloroethane	BDL	11	U
Nitrobenzene	BDL	11	U
Isophorone	BDL	11	U
2-Nitrophenol	BDL	11	U
2,4-Dimethylphenol	BDL	11	U
bis(2-Chloroethoxy)methane	BDL	11	U
2,4-Dichlorophenol	BDL	11	U
1,2,4-Trichlorobenzene	BDL	11	U
Naphthalene	BDL	11	U



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RE: RIN #6
Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

SEMIVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	11	U
4-Chloro-3-methylphenol	BDL	11	U
Hexachlorocyclopentadiene	BDL	11	U
2,4,6-Trichlorophenol	BDL	11	U
2-Chloronaphthalene	BDL	11	U
Dimethylphthalate	BDL	11	U
Acenaphthylene	BDL	11	U
2,6-Dinitrotoluene	BDL	11	U
Acenaphthene	BDL	11	U
2,4-Dinitrophenol	BDL	54	U
4-Nitrophenol	BDL	54	U
2,4-Dinitrotoluene	BDL	11	U
Diethylphthalate	BDL	11	U
4-Chlorophenyl-phenylether	BDL	11	U
Fluorene	BDL	11	U
4,6-Dinitro-2-methylphenol	BDL	54	U
N-Nitrosodiphenylamine (1)	BDL	11	U



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Lab ID: 9006G391-001
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Date Received: 06/19/90
Units: UG/L

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	11	U
Hexachlorobenzene	BDL	11	U
Pentachlorophenol	BDL	54	U
Phenanthrene	BDL	11	U
Anthracene	BDL	11	U
Di-n-Butylphthalate	BDL	11	U
Fluoranthene	BDL	11	U
Pyrene	BDL	11	U
Butylbenzylphthalate	BDL	11	U
3,3'-Dichlorobenzidine	BDL	22	U
Benzo(a)anthracene	BDL	11	U
Chrysene	BDL	11	U
bis(2-Ethylhexyl)phthalate	9	11	JB
Di-n-Octyl phthalate	BDL	11	U
Benzo(b)fluoranthene	BDL	11	U
Benzo(k)fluoranthene	BDL	11	U
Benzo(a)pyrene	BDL	11	U



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Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

SEMICOLVATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	11	U
Dibenzo(a,h)anthracene	BDL	11	U
Benzo(g,h,i)perylene	BDL	11	U
1,2-Diphenylhydrazine	BDL	11	U
N-Nitrosodimethylamine	BDL	11	U
Benzidine	BDL	110	U



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Project # 2400-11-01-0000
Lab ID: 9006G391-001
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

Tentatively Identified Compounds

2 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention	Estimated
	Time	Concentration
Unknown	28.31	20 J
Unknown	36.02	20 JB



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Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 19th, 1990

RE: S-2
Project # 2400-11-01-0000
Lab ID: 9006G391-002
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	92.0	%	0.10
Silver, Total	3.1	u mg/kg	3.1
Arsenic, Total	3.4	mg/kg	1.7
Beryllium, Total	0.21	u mg/kg	0.21
Cadmium, Total	0.42	u mg/kg	0.42
Chromium, Total	3.5	mg/kg	2.1
Copper, Total	6.2	mg/kg	2.1
Mercury, Total	0.089	u mg/kg	0.089
Nickel, Total	2.1	u mg/kg	2.1
Lead, Total	10.5	mg/kg	5.2
Antimony, Total	52.1	u mg/kg	52.1
Selenium, Total	0.87	u mg/kg	0.87
Thallium, Total	31.3	u mg/kg	31.3
Zinc, Total	14.3	mg/kg	1.0



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Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-2
Project # 2400-11-01-0000
Lab ID: 9006G391-002
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	11	U
Bromomethane	BDL	11	U
Vinyl Chloride	BDL	11	U
Chloroethane	BDL	11	U
Methylene Chloride	4	5	J
Acetone	24	11	B
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-2
Project # 2400-11-01-0000
Lab ID: 9006G391-002
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	BDL	5	U
Acrolein	BDL	540	U
Acrylonitrile	BDL	110	U
Dichlorodifluoromethane	BDL	22	U
Trichlorofluoromethane	BDL	11	U
Bis(chloromethyl)ether	BDL	22	U
2-Chloroethylvinylether	BDL	11	U



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Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-2
Project # 2400-11-01-0000
Lab ID: 9006G391-002
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 19th, 1990

RE: S-5
Project # 2400-11-01-0000
Lab ID: 9006G391-003
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	93.3	%	0.10
Silver, Total	3.0	u mg/kg	3.0
Arsenic, Total	2.6	mg/kg	1.2
Beryllium, Total	0.20	u mg/kg	0.20
Cadmium, Total	0.40	u mg/kg	0.40
Chromium, Total	3.1	mg/kg	2.0
Copper, Total	9.5	mg/kg	2.0
Mercury, Total	0.089	u mg/kg	0.089
Nickel, Total	3.7	mg/kg	2.0
Lead, Total	6.3	mg/kg	5.0
Antimony, Total	50.4	u mg/kg	50.4
Selenium, Total	0.61	u mg/kg	0.61
Thallium, Total	30.2	u mg/kg	30.2
Zinc, Total	23.2	mg/kg	1.0



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Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-5
Project # 2400-11-01-0000
Lab ID: 9006G391-003
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	11	U
Bromomethane	BDL	11	U
Vinyl Chloride	BDL	11	U
Chloroethane	BDL	11	U
Methylene Chloride	4	5	J
Acetone	19	11	B
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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Date: Thursday July 5th, 1990

RE: S-5
Project # 2400-11-01-0000
Lab ID: 9006G391-003
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	BDL	5	U
Acrolein	BDL	540	U
Acrylonitrile	BDL	110	U
Dichlorodifluoromethane	BDL	21	U
Trichlorofluoromethane	BDL	11	U
Bis(chloromethyl)ether	BDL	21	U
2-Chloroethylvinylether	BDL	11	U



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Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990
RE: S-5
Project # 2400-11-01-0000
Lab ID: 9006G391-003
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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Attn: Mr. Willy Pua

Date: Thursday July 19th, 1990

RE: S-13
Project # 2400-11-01-0000
Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	80.0	%	0.10
Cyanide, Reactive	0.69	u mg/kg X	0.69
Cyanide, Total	0.69	u mg/kg	0.69
COD	21000	mg/kg	4000
Ammonia, as Nitrogen	112	mg/kg	3.8
Total Organic Carbon	12200	mg/kg	893
pH	8.2	pH	+-0.020
Phenol	3.6	u mg/kg	3.6
Sulfide	6.2	u mg/kg	6.2
Sulfide Reactive	6.2	u mg/kg	6.2
Total Organic Halogen	822	u mg/kg	822
Silver, Total	3.6	u mg/kg	3.6
Arsenic, Total	10.7	mg/kg	1.9
Beryllium, Total	1.1	mg/kg	0.24
Cadmium, Total	0.48	u mg/kg	0.48
Chromium, Total	28.3	mg/kg	2.4
Copper, Total	34.1	mg/kg	2.4



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Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Mercury, Total	0.10	u mg/kg	0.10
Nickel, Total	43.5	mg/kg	2.4
Lead, Total	24.7	mg/kg	6.0
Antimony, Total	59.8	u mg/kg	59.8
Selenium, Total	0.96	u mg/kg	0.96
Thallium, Total	35.8	u mg/kg	35.8
Zinc, Total	79.0	mg/kg	1.2



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Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	12	U
Bromomethane	BDL	12	U
Vinyl Chloride	BDL	12	U
Chloroethane	BDL	12	U
Methylene Chloride	13	6	
Acetone	120	12	B
1,1-Dichloroethene	BDL	6	U
1,1-Dichloroethane	BDL	6	U
1,2-Dichloroethene (total)	BDL	6	U
Chloroform	BDL	6	U
1,2-Dichloroethane	BDL	6	U
1,1,1-Trichloroethane	BDL	6	U
Carbon Tetrachloride	BDL	6	U
Bromodichloromethane	BDL	6	U
1,2-Dichloropropane	BDL	6	U
cis-1,3-Dichloropropene	BDL	6	U
Trichloroethene	BDL	6	U



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Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	6	U
1,1,2-Trichloroethane	BDL	6	U
Benzene	BDL	6	U
Trans-1,3-Dichloropropene	BDL	6	U
Bromoform	BDL	6	U
Tetrachloroethene	BDL	6	U
1,1,2,2-Tetrachloroethane	BDL	6	U
Toluene	2	6	J
Chlorobenzene	BDL	6	U
Ethylbenzene	BDL	6	U
Xylene (total)	BDL	6	U
Acrolein	BDL	620	U
Acrylonitrile	BDL	120	U
Dichlorodifluoromethane	BDL	25	U
Trichlorofluoromethane	3	12	J
Bis(chloromethyl)ether	BDL	25	U
2-Chloroethylvinylether	BDL	12	U



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Date: Thursday July 5th, 1990

RE: S-13
Project # 2400-11-01-0000
Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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Attn: Mr. Willy Pua

Date: Tuesday July 10th, 1990
RE: S-13
Project # 2400-11-01-0000
Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

SEMICVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	420	U
bis(2-Chloroethyl)ether	BDL	420	U
2-Chlorophenol	BDL	420	U
1,3-Dichlorobenzene	BDL	420	U
1,4-Dichlorobenzene	BDL	420	U
1,2-Dichlorobenzene	BDL	420	U
bis(2-Chloroisopropyl)ether	BDL	420	U
N-Nitroso-Di-n-propylamine	BDL	420	U
Hexachloroethane	BDL	420	U
Nitrobenzene	BDL	420	U
Isophorone	BDL	420	U
2-Nitrophenol	BDL	420	U
2,4-Dimethylphenol	BDL	420	U
bis(2-Chloroethoxy)methane	BDL	420	U
2,4-Dichlorophenol	BDL	420	U
1,2,4-Trichlorobenzene	BDL	420	U
Naphthalene	BDL	420	U



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Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	420	U
4-Chloro-3-methylphenol	BDL	420	U
Hexachlorocyclopentadiene	BDL	420	U
2,4,6-Trichlorophenol	BDL	420	U
2-Chloronaphthalene	BDL	420	U
Dimethylphthalate	BDL	420	U
Acenaphthylene	BDL	420	U
2,6-Dinitrotoluene	BDL	420	U
Acenaphthene	BDL	420	U
2,4-Dinitrophenol	BDL	2100	U
4-Nitrophenol	BDL	2100	U
2,4-Dinitrotoluene	BDL	420	U
Diethylphthalate	BDL	420	U
4-Chlorophenyl-phenylether	BDL	420	U
Fluorene	BDL	420	U
4,6-Dinitro-2-methylphenol	BDL	2100	U
N-Nitrosodiphenylamine (1)	BDL	420	U



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Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	420	U
Hexachlorobenzene	BDL	420	U
Pentachlorophenol	BDL	2100	U
Phenanthrene	BDL	420	U
Anthracene	BDL	420	U
Di-n-Butylphthalate	BDL	420	U
Fluoranthene	BDL	420	U
Pyrene	BDL	420	U
Butylbenzylphthalate	BDL	420	U
3,3'-Dichlorobenzidine	BDL	830	U
Benzo(a)anthracene	BDL	420	U
Chrysene	BDL	420	U
bis(2-Ethylhexyl)phthalate	71	420	JB
Di-n-Octyl phthalate	BDL	420	U
Benzo(b)fluoranthene	BDL	420	U
Benzo(k)fluoranthene	BDL	420	U
Benzo(a)pyrene	BDL	420	U



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Date: Tuesday July 10th, 1990

RE: S-13
Project # 2400-11-01-0000
Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

SEMICOLVATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	420	U
Dibenzo(a,h)anthracene	BDL	420	U
Benzo(g,h,i)perylene	BDL	420	U
1,2-Diphenylhydrazine	BDL	420	U
N-Nitrosodimethylamine	BDL	420	U
Benzidine	BDL	4200	U



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RE: S-13

Project # 2400-11-01-0000
Lab ID: 9006G391-004
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

Tentatively Identified Compounds

6 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention	Estimated
	Time	Concentration
UNKNOWN (C6H10O)	4.97	200 J
Unknown	6.07	6000 JB
Unknown	28.09	200 JB
Unknown	35.92	200 JB
Unknown	44.66	1000 J
Unknown	45.35	400 J



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Attn: Mr. Willy Pua

Date: Thursday July 19th, 1990

RE: S-15
Project # 2400-11-01-0000
Lab ID: 9006G391-005
Sample Date: 06/18/90
Date Received: 06/19/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	84.0	%	0.10
Silver, Total	3.4	u mg/kg	3.4
Arsenic, Total	8.8	mg/kg	1.8
Beryllium, Total	0.23	u mg/kg	0.23
Cadmium, Total	0.45	u mg/kg	0.45
Chromium, Total	13.3	mg/kg	2.3
Copper, Total	27.9	mg/kg	2.3
Mercury, Total	0.082	u mg/kg	0.082
Nickel, Total	20.4	mg/kg	2.3
Lead, Total	11.2	mg/kg	5.7
Antimony, Total	56.8	u mg/kg	56.8
Selenium, Total	0.91	u mg/kg	0.91
Thallium, Total	34.1	u mg/kg	34.1
Zinc, Total	58.9	mg/kg	1.1



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Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-15
Project # 2400-11-01-0000
Lab ID: 9006G391-005
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	12	U
Bromomethane	BDL	12	U
Vinyl Chloride	BDL	12	U
Chloroethane	BDL	12	U
Methylene Chloride	12	6	
Acetone	15	12	B
1,1-Dichloroethene	BDL	6	U
1,1-Dichloroethane	BDL	6	U
1,2-Dichloroethene (total)	BDL	6	U
Chloroform	BDL	6	U
1,2-Dichloroethane	BDL	6	U
1,1,1-Trichloroethane	BDL	6	U
Carbon Tetrachloride	BDL	6	U
Bromodichloromethane	BDL	6	U
1,2-Dichloropropane	BDL	6	U
cis-1,3-Dichloropropene	BDL	6	U
Trichloroethene	BDL	6	U



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Lab ID: 9006G391-005
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	6	U
1,1,2-Trichloroethane	BDL	6	U
Benzene	BDL	6	U
Trans-1,3-Dichloropropene	BDL	6	U
Bromoform	BDL	6	U
Tetrachloroethene	BDL	6	U
1,1,2,2-Tetrachloroethane	BDL	6	U
Toluene	BDL	6	U
Chlorobenzene	BDL	6	U
Ethylbenzene	BDL	6	U
Xylene (total)	BDL	6	U
Acrolein	BDL	600	U
Acrylonitrile	BDL	120	U
Dichlorodifluoromethane	BDL	24	U
Trichlorofluoromethane	3	12	J
Bis(chloromethyl)ether	BDL	24	U
2-Chloroethylvinylether	BDL	12	U



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: S-15
Project # 2400-11-01-0000
Lab ID: 9006G391-005
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest
internal standard were tentatively identified by mass
spectral library search. This is exclusive of any target
compounds, surrogates or internal standards.



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: Trip Blank #6
Project # 2400-11-01-0000
Lab ID: 9006G391-006
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	10	U
Chloroethane	BDL	10	U
Methylene Chloride	BDL	5	U
Acetone	11	10	B
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: Trip Blank #6
Project # 2400-11-01-0000
Lab ID: 9006G391-006
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethylene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	BDL	5	U
Acrolein	BDL	500	U
Acrylonitrile	BDL	100	U
Dichlorodifluoromethane	BDL	20	U
Trichlorofluoromethane	BDL	10	U
Bis(chloromethyl)ether	BDL	20	U
2-Chloroethylvinylether	BDL	10	U



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
3 Hawthorn Parkway, Suite 400
Vernon Hills, IL 60061

Attn: Mr. Willy Pua

Date: Thursday July 5th, 1990

RE: Trip Blank #6
Project # 2400-11-01-0000
Lab ID: 9006G391-006
Sample Date: 06/18/90
Date Received: 06/19/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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May 8, 1990

Mr. Willy Pua
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Dear Mr. Pua:

Please find enclosed the analytical report for the sample submitted to Weston/Gulf Coast Laboratories for analyses. It was identified as follows:

Project: AT & T/Bell Lab

CLIENT ID	LAB ID#	SAMPLE DATE	DATE RECEIVED
Soil S-6	9004G249-001	04/27/90	04/28/00

If you have any questions, please contact Jodie Bracken at our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau
John Boudreau
Laboratory Manager

J.A. Kaczinski
Jeff A. Kaczinski
GC/MS Unit Leader

jvb

Enclosures

Michael J. Healy
Michael J. Healy
Project Manager

Mani S. Iyer
Mani S. Iyer
Metals Unit Leader



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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CASE NARRATIVE

METALS

WESTON/Gulf Coast
AT & T/Bell Lab
RFW Batch #: 9004G249

The samples were analyzed as follows:

ICP - Ag, Be, Cd, Cr, Cu, Ni, Pb, Sb, Tl, Zn
Hydride - As, Se
Cold Vapor - Hg

Preparation Blank (PB)

All PB results were below the instrument reporting limits.

Laboratory Control Samples (LCS)

All LCS results met the required QC limits.

Duplicate

All the duplicate results were within the reporting limits except:

9004G249-001 Ag, Cd, Cr, Cu, Ni, Pb

<u>Element</u>	<u>Original Result</u> mg/kg	<u>Duplicate Result</u> mg/kg	<u>RPD</u> %
Ag	5.4	7.3	31.1
Cd	1.6	0.48	106
Cr	40.3	64.2	45.8
Cu	1290	1840	35.5
Ni	3.7	6.2	50.9
Pb	369	516	33.3

Spike

All the spike results were within the required QC limits except:

9004G249-001 As, Cd, Cr, Se, Zn

<u>Element</u>	<u>Original Spike Recovery</u> %	<u>Duplicate Spike Recovery</u> %
As	50.1	63.0
Cd	38.6	61.0
Cr	133	302
Se	205	137
Zn	130	309

Comment

The poor duplicate and spike recovery indicates that there was difficulty in obtaining a representative sub-sample for analysis.

Mani S. Iyer

Mani S. Iyer
Metals Unit Leader

5/8/90

Date



WESTON-GULF COAST LABORATORIES, INC.
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DATA QUALIFIERS

- U - Indicates an inorganic compound was analyzed for but not detected.
- U - Indicates an organic compound was analyzed for but not detected.
- J - Indicates an estimated value for either a TIC or an analyte that meets the identification criteria but the result is less than the specified detection limit.
- B - Indicates the compound was found in the blank and the sample.
- T - Indicates the compound was found in the TCLP extraction blank and the sample.
- E - Concentrations exceed calibration range of the instrument.
- I - Indicates Interference.
- BS - Indicates matrix analyses were conducted on reagent grade water.
- BSD - Blank Spike Duplicate
- BDL - Below Detection Limit
- MS - Matrix Spike
- MSD - Matrix Spike Duplicate
- D - Indicates that surrogate/matrix spike recoveries were not obtained because the extract had to be diluted for analysis.
- DL - Indicates a secondary dilution
- NA - Not Applicable
- DF - Dilution factor
- X - Result is by calculation

NOTES:

Solid, sediment and sludge results are reported on a dry weight basis except when analyzed for Landfill disposal parameters (such as incineration or Illinois Green Sheet parameters). All other mg/kg results are reported on an "as received" basis.

Reporting limits are detection limits adjusted for sample size used, dilutions made, and in the case of dry weight results, the moisture content of the sample.



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Tuesday May 8th, 1990

RE: Soil S-6
Project # 2400-11-01-0000
Lab ID: 9004G249-001
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	80.6	%	0.10
Silver, Total	5.4	mg/kg	3.2
Arsenic, Total	2.4	mg/kg	1.7
Beryllium, Total	0.21	u mg/kg	0.21
Cadmium, Total	1.6	mg/kg	0.42
Chromium, Total	40.3	mg/kg	2.1
Copper, Total	1290	mg/kg	2.1
Mercury, Total	0.74	mg/kg	0.11
Nickel, Total	3.7	mg/kg	2.1
Lead, Total	369	mg/kg	5.3
Antimony, Total	52.8	u mg/kg	52.8
Selenium, Total	15.6	mg/kg	0.84
Thallium, Total	31.7	u mg/kg	31.7
Zinc, Total	19.1	mg/kg	1.1



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Wednesday May 2nd, 1990

RE: Soil S-6
Project # 2400-11-01-0000
Lab ID: 9004G249-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	6200	U
Bromomethane	BDL	6200	U
Vinyl Chloride	BDL	6200	U
Chloroethane	BDL	6200	U
Methylene Chloride	BDL	3100	U
Acetone	99000	6200	
1,1-Dichloroethene	BDL	3100	U
1,1-Dichloroethane	BDL	3100	U
1,2-Dichloroethene (total)	BDL	3100	U
Chloroform	BDL	3100	U
1,2-Dichloroethane	BDL	3100	U
1,1,1-Trichloroethane	BDL	3100	U
Carbon Tetrachloride	BDL	3100	U
Bromodichloromethane	BDL	3100	U
1,2-Dichloropropane	BDL	3100	U
cis-1,3-Dichloropropene	BDL	3100	U
Trichloroethene	BDL	3100	U



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To: AT & T/Bell Lab
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100 Corporate North, Suite 101
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Attn: Mr. Willy Pua

Date: Wednesday May 2nd, 1990

RE: Soil S-6
Project # 2400-11-01-0000
Lab ID: 9004G249-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	3100	U
1,1,2-Trichloroethane	BDL	3100	U
Benzene	BDL	3100	U
Trans-1,3-Dichloropropene	BDL	3100	U
Bromoform	BDL	3100	U
Tetrachloroethene	1700	3100	J
1,1,2,2-Tetrachloroethane	BDL	3100	U
Toluene	850	3100	J
Chlorobenzene	BDL	3100	U
Ethylbenzene	BDL	3100	U
Xylene (total)	4800	3100	
Acrolein	BDL	310000	U
Acrylonitrile	BDL	62000	U
Dichlorodifluoromethane	BDL	12000	U
Trichlorofluoromethane	BDL	6200	U
Bis(chloromethyl)ether	BDL	12000	U
2-Chloroethylvinylether	BDL	6200	U



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Wednesday May 2nd, 1990

RE: Soil S-6
Project # 2400-11-01-0000
Lab ID: 9004G249-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

Tentatively Identified Compounds

6 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
Trichlorotrifluoroethane	5.96	20000 J
Unknown	25.24	10000 J
Ethyl-methyl benzene C9H12	25.61	80000 J
Unknown benzene C9H12	25.91	40000 J
Ethyl-methyl benzene C9H12	26.46	70000 J
Unknown benzene C9H12	27.06	100000 J



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (312) 534-5200 (219) 885-7077 (815) 723-7533

May 17, 1990

Mr. Willy Pua
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Dear Mr. Pua:

Please find enclosed the analytical reports for the samples submitted to Weston/Gulf Coast Laboratories for analyses. They were identified as follows:

Project: AT & T/Bell Lab

CLIENT ID	LAB ID#	SAMPLE DATE	DATE RECEIVED
Soil S-19	9004G253-001	04/27/90	04/28/90
Soil S-12	9004G253-002	04/27/90	04/28/90
Rinsate 2	9004G253-003	04/27/90	04/28/90
Rinsate 3	9004G253-004	04/27/90	04/28/90
Trip Blank	9004G253-005	04/27/90	04/28/90

The Corrosivity analysis was performed at our Lionville Laboratory.

If you have any questions, please contact Jodie Bracken at our laboratories.

Sincerely,

WESTON/GULF COAST LABORATORIES

John Boudreau
John Boudreau
Laboratory Manager

Jeff A. Kaczinski
Jeff A. Kaczinski
GC/MS Unit Leader

Diane L. Harper
Diane L. Harper
Wet Chemistry Unit Leader

jvb

Enclosures

Michael J. Healy
Michael J. Healy
Project Manager

Mani S. Iyer
Mani S. Iyer
Metals Unit Leader



ROY F. WESTON, INC.
Lionville Laboratory

CLIENT: AT&T BELL LABS
RFW #: 9004G253
W.O. #: 2400-11-01

SAMPLES RECEIVED: 05-01-90

INORGANIC NARRATIVE

The following is a summary of the quality control results and a description of any problems encountered during the analysis of this batch of samples:

1. All sample holding times as required by 40CFR136 were met for water samples. Note: Holding times for soil samples have not been promulgated by the USEPA.
2. All replicate results were within the 20% guidance limit.
3. The analytical methods applied by the laboratory, unless otherwise requested, for all inorganic analyses are derived from the USEPA Method for Chemical Analysis of Water and Wastes (USEPA 600/4-79-020), and Standard Methods for the Examination of Water and Wastewater 16 ed. Methods for the analysis of solid samples are derived from Test Methods for Evaluating Solid Waste (USEPA SW846).

NOTE: For solid samples, all results are reported on a dry weight basis.

/ zsh H

Jack R. Tuschall, Ph.D.
Laboratory Manager
Lionville Analytical Laboratory

5-8-90
Date



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
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CASE NARRATIVE
VOA, BNA GC/MS

WESTON/Gulf Coast
AT & T/Bell Lab
RFW# 9004G253

VOA DATA:

1. All initial analyses were performed within the recommended hold time.
2. All Method Blank target compounds were below Contract Required Quantitation Limits (CRQL). (** or five times the CRQL for the following compounds: methylene chloride, acetone, toluene, 2-butanone).
3. All LCS (Method Blank Spike) recoveries were within recommended limits.
4. Matrix spike analyses were conducted on another sample that was analyzed with this set.
5. All surrogate recoveries in the volatile analyses were within USEPA QC limits except for the water sample 003, 004, and 005 which each had at least two surrogates out.
6. Weston-Gulf Coast uses the following GC/MS systems which can be identified on all raw data by either the Instrument ID or the quantitation file ID:

ID #	Instrument	Quant ID File
GCL#1	Hewlett Packard 5970 MSD	ID_MS1
GCL#2	Hewlett Packard 5996	ID_MS2
GCL#3	Hewlett Packard 5996	ID_MS3
GCL#4	Hewlett Packard 5970 MSD	ID_MS4

All analyses were performed using Method SW846-8240 unless otherwise noted. The Internal Standard and Surrogate peaks are labeled by name.

7. All of the samples were analyzed as either low level soils or waters and therefore normal detection limits apply.



WESTON-GULF COAST LABORATORIES, INC.
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CASE NARRATIVE

BNA DATA:

1. All initial extraction and analyses were performed within the recommended hold times.
2. All Method Blank target compounds were below CRQL's. (** or five times the CRQL for the phthalate esters).
3. All LCS (Method Blank Spike) recoveries were within recommended control limits.
4. Matrix spike analyses were conducted on sample 9004g253-001.
5. All surrogate recoveries in the semi-volatile analyses were within USEPA QC limits.
6. All analyses were performed using Method SW846-8270 unless otherwise noted. The Internal Standard and Surrogate peaks are labelled by name.
7. All of the samples were extracted and analyzed as either low level soils or waters and therefore normal detection limits apply.

J.H.A. Kazinski, GC/MS Unit Leader
Name/Title

5-16-90
Date



WESTON-GULF COAST LABORATORIES, INC.
2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Wednesday May 16th, 1990
RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	82.2	%	0.10
Cyanide, Reactive	0.60	u mg/kg	0.60
Cyanide, Total	0.60	u mg/kg	0.60
COD	19000	mg/kg	5700
Corrosivity	6.35	u mm/yr	6.35
Ammonia, as Nitrogen	20.2	mg/kg	3.4
Total Organic Carbon	13100	mg/kg	1570
pH	4.8	pH	+0.020
Phenol	3.1	u mg/kg	3.1
Sulfide	5.6	u mg/kg	5.6
Sulfide Reactive	5.6	u mg/kg	5.6
Total Organic Halogen	902	u mg/kg	902



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Thursday May 17th, 1990
RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	3.1	u	mg/kg
Arsenic, Total	3.3		mg/kg
Beryllium, Total	0.50		mg/kg
Cadmium, Total	0.41	u	mg/kg
Chromium, Total	9.7		mg/kg
Copper, Total	18.7		mg/kg
Mercury, Total	0.089	u	mg/kg
Nickel, Total	16.6		mg/kg
Lead, Total	10.8		mg/kg
Antimony, Total	51.6	u	mg/kg
Selenium, Total	2.1	u	mg/kg
Thallium, Total	31.0	u	mg/kg
Zinc, Total	61.5		mg/kg



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	12	U
Bromomethane	BDL	12	U
Vinyl Chloride	BDL	12	U
Chloroethane	BDL	12	U
Methylene Chloride	13	6	
Acetone	46	12	B
1,1-Dichloroethene	BDL	6	U
1,1-Dichloroethane	BDL	6	U
1,2-Dichloroethene (total)	BDL	6	U
Chloroform	BDL	6	U
1,2-Dichloroethane	BDL	6	U
1,1,1-Trichloroethane	27	6	
Carbon Tetrachloride	BDL	6	U
Bromodichloromethane	BDL	6	U
1,2-Dichloropropane	BDL	6	U
cis-1,3-Dichloropropene	BDL	6	U
Trichloroethene	11	6	



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	6	U
1,1,2-Trichloroethane	BDL	6	U
Benzene	BDL	6	U
Trans-1,3-Dichloropropene	BDL	6	U
Bromoform	BDL	6	U
Tetrachloroethene	4	6	J
1,1,2,2-Tetrachloroethane	BDL	6	U
Toluene	BDL	6	U
Chlorobenzene	BDL	6	U
Ethylbenzene	BDL	6	U
Xylene (total)	BDL	6	U
Acrolein	BDL	610	U
Acrylonitrile	BDL	120	U
Dichlorodifluoromethane	BDL	24	U
Trichlorofluoromethane	BDL	12	U
Bis(chloromethyl)ether	BDL	24	U
2-Chloroethylvinylether	BDL	12	U



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

Tentatively Identified Compounds

1 Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Volatile Compound	Retention Time	Estimated Concentration
TRICHLOROTRIFLUOROETHANE	5.85	100 J



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2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Thursday May 10th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMICVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	400	U
bis(2-Chloroethyl)ether	BDL	400	U
2-Chlorophenol	BDL	400	U
1,3-Dichlorobenzene	BDL	400	U
1,4-Dichlorobenzene	BDL	400	U
1,2-Dichlorobenzene	BDL	400	U
bis(2-Chloroisopropyl)ether	BDL	400	U
N-Nitroso-Di-n-propylamine	BDL	400	U
Hexachloroethane	BDL	400	U
Nitrobenzene	BDL	400	U
Isophorone	BDL	400	U
2-Nitrophenol	BDL	400	U
2,4-Dimethylphenol	BDL	400	U
bis(2-Chloroethoxy)methane	BDL	400	U
2,4-Dichlorophenol	BDL	400	U
1,2,4-Trichlorobenzene	BDL	400	U
Naphthalene	BDL	400	U



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Attn: Mr. Willy Pua

Date: Thursday May 10th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMICOLVATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semicolvolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	400	U
4-Chloro-3-methylphenol	BDL	400	U
Hexachlorocyclopentadiene	BDL	400	U
2,4,6-Trichlorophenol	BDL	400	U
2-Chloronaphthalene	BDL	400	U
Dimethylphthalate	BDL	400	U
Acenaphthylene	BDL	400	U
2,6-Dinitrotoluene	BDL	400	U
Acenaphthene	BDL	400	U
2,4-Dinitrophenol	BDL	2000	U
4-Nitrophenol	BDL	2000	U
2,4-Dinitrotoluene	BDL	400	U
Diethylphthalate	BDL	400	U
4-Chlorophenyl-phenylether	BDL	400	U
Fluorene	BDL	400	U
4,6-Dinitro-2-methylphenol	BDL	2000	U
N-Nitrosodiphenylamine (1)	BDL	400	U



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Date: Thursday May 10th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMICOLATIVES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	400	U
Hexachlorobenzene	BDL	400	U
Pentachlorophenol	BDL	2000	U
Phenanthrene	BDL	400	U
Anthracene	BDL	400	U
Di-n-Butylphthalate	BDL	400	U
Fluoranthene	BDL	400	U
Pyrene	BDL	400	U
Butylbenzylphthalate	BDL	400	U
3,3'-Dichlorobenzidine	BDL	800	U
Benzo(a)anthracene	BDL	400	U
Chrysene	BDL	400	U
bis(2-Ethylhexyl)phthalate	160	400	JB
Di-n-Octyl phthalate	BDL	400	U
Benzo(b)fluoranthene	BDL	400	U
Benzo(k)fluoranthene	BDL	400	U
Benzo(a)pyrene	BDL	400	U



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Attn: Mr. Willy Pua

Date: Thursday May 10th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMICOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	400	U
Dibenzo(a,h)anthracene	BDL	400	U
Benzo(g,h,i)perylene	BDL	400	U
1,2-Diphenylhydrazine	BDL	400	U
N-Nitrosodimethylamine	BDL	400	U
Benzidine	BDL	4000	U



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Attn: Mr. Willy Pua

Date: Thursday May 10th, 1990

RE: Soil S-19
Project # 2400-11-01-0000
Lab ID: 9004G253-001
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention	Estimated	
	Time	Concentration	
Unknown	6.63	4000	JB
HYDROCARBON (C19H40)	23.92	200	J
Unknown	28.72	400	JB
Unknown	32.26	1000	JB
Unknown	36.86	400	JB



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To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Wednesday May 16th, 1990
RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 90046253-002
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
% Solids	86.6	%	0.10
Cyanide, Reactive	0.56	u mg/kg	0.56
Cyanide, Total	0.56	u mg/kg	0.56
COD	14000	mg/kg	3000
Corrosivity	6.35	u mm/yr	6.35
Ammonia, as Nitrogen	14.4	mg/kg	3.2
Total Organic Carbon	19400	mg/kg	722
pH	4.8	pH	+0.020
Phenol	3.4	u mg/kg	3.4
Sulfide	5.4	u mg/kg	5.4
Sulfide Reactive	5.4	u mg/kg	5.4
Total Organic Halogen	981	u mg/kg	981



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To: AT & T/Bell Lab
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100 Corporate North, Suite 101
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Attn: Mr. Willy Pua

Date: Thursday May 17th, 1990
RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	3.3	u	mg/kg
Arsenic, Total	6.1		mg/kg
Beryllium, Total	0.56		mg/kg
Cadmium, Total	0.44	u	mg/kg
Chromium, Total	12.0		mg/kg
Copper, Total	21.6		mg/kg
Mercury, Total	0.079	u	mg/kg
Nickel, Total	20.7		mg/kg
Lead, Total	9.8		mg/kg
Antimony, Total	55.3	u	mg/kg
Selenium, Total	2.2	u	mg/kg
Thallium, Total	33.2	u	mg/kg
Zinc, Total	59.8		mg/kg



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Date: Friday May 11th, 1990

RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	12	U
Bromomethane	BDL	12	U
Vinyl Chloride	BDL	12	U
Chloroethane	BDL	12	U
Methylene Chloride	5	6	J
Acetone	24	12	B
1,1-Dichloroethene	BDL	6	U
1,1-Dichloroethane	BDL	6	U
1,2-Dichloroethene (total)	BDL	6	U
Chloroform	BDL	6	U
1,2-Dichloroethane	BDL	6	U
1,1,1-Trichloroethane	BDL	6	U
Carbon Tetrachloride	BDL	6	U
Bromodichloromethane	BDL	6	U
1,2-Dichloropropane	BDL	6	U
cis-1,3-Dichloropropene	BDL	6	U
Trichloroethene	BDL	6	U



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Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	6	U
1,1,2-Trichloroethane	BDL	6	U
Benzene	BDL	6	U
Trans-1,3-Dichloropropene	BDL	6	U
Bromoform	BDL	6	U
Tetrachloroethene	BDL	6	U
1,1,2,2-Tetrachloroethane	BDL	6	U
Toluene	BDL	6	U
Chlorobenzene	BDL	6	U
Ethylbenzene	BDL	6	U
Xylene (total)	BDL	6	U
Acrolein	BDL	580	U
Acrylonitrile	BDL	120	U
Dichlorodifluoromethane	BDL	23	U
Trichlorofluoromethane	BDL	12	U
Bis(chloromethyl)ether	BDL	23	U
2-Chloroethylvinylether	BDL	12	U



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Date: Friday May 11th, 1990

RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMIVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	380	U
bis(2-Chloroethyl)ether	BDL	380	U
2-Chlorophenol	BDL	380	U
1,3-Dichlorobenzene	BDL	380	U
1,4-Dichlorobenzene	BDL	380	U
1,2-Dichlorobenzene	BDL	380	U
bis(2-Chloroisopropyl)ether	BDL	380	U
N-Nitroso-Di-n-propylamine	BDL	380	U
Hexachloroethane	BDL	380	U
Nitrobenzene	BDL	380	U
Isophorone	BDL	380	U
2-Nitrophenol	BDL	380	U
2,4-Dimethylphenol	BDL	380	U
bis(2-Chloroethoxy)methane	BDL	380	U
2,4-Dichlorophenol	BDL	380	U
1,2,4-Trichlorobenzene	BDL	380	U
Naphthalene	BDL	380	U



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RE: Soil S-12
Project # 2400-11-01-0000
Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	380	U
4-Chloro-3-methylphenol	BDL	380	U
Hexachlorocyclopentadiene	BDL	380	U
2,4,6-Trichlorophenol	BDL	380	U
2-Chloronaphthalene	BDL	380	U
Dimethylphthalate	BDL	380	U
Acenaphthylene	BDL	380	U
2,6-Dinitrotoluene	BDL	380	U
Acenaphthene	BDL	380	U
2,4-Dinitrophenol	BDL	1900	U
4-Nitrophenol	BDL	1900	U
2,4-Dinitrotoluene	BDL	380	U
Diethylphthalate	BDL	380	U
4-Chlorophenyl-phenylether	BDL	380	U
Fluorene	BDL	380	U
4,6-Dinitro-2-methylphenol	BDL	1900	U
N-Nitrosodiphenylamine (1)	BDL	380	U



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Units: UG/KG

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	380	U
Hexachlorobenzene	BDL	380	U
Pentachlorophenol	BDL	1900	U
Phenanthrene	BDL	380	U
Anthracene	BDL	380	U
Di-n-Butylphthalate	BDL	380	U
Fluoranthene	BDL	380	U
Pyrene	BDL	380	U
Butylbenzylphthalate	BDL	380	U
3,3'-Dichlorobenzidine	BDL	770	U
Benzo(a)anthracene	BDL	380	U
Chrysene	BDL	380	U
bis(2-Ethylhexyl)phthalate	130	380	JB
Di-n-Octyl phthalate	BDL	380	U
Benzo(b)fluoranthene	BDL	380	U
Benzo(k)fluoranthene	BDL	380	U
Benzo(a)pyrene	BDL	380	U



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Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

SEMIVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	380	U
Dibenzo(a,h)anthracene	BDL	380	U
Benzo(g,h,i)perylene	BDL	380	U
1,2-Diphenylhydrazine	BDL	380	U
N-Nitrosodimethylamine	BDL	380	U
Benzidine	BDL	3800	U



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Lab ID: 9004G253-002
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/KG

Tentatively Identified Compounds

5 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	6.59	3000 JB
HYDROCARBON (C19H40)	23.92	200 J
Unknown	28.72	1000 JB
Unknown	32.26	1000 JB
Unknown	36.86	500 JB



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To: AT & T/Bell Lab
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Attn: Mr. Willy Pua

Date: Wednesday May 16th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	0.010	u mg/L	0.010
COD	5	u mg/L	5
Corrosivity	6.35	u mm/yr	6.35
Ammonia, as Nitrogen	0.16	mg/L	0.10
Total Organic Carbon	1.0	u mg/L	1.0
TOC Test 2	1.0	u mg/L	1.0
pH	4.8	pH	+0.020
Phenol	0.0050	u mg/L	0.0050
Sulfide	0.25	u mg/L	0.25
Total Organic Halogen	0.010	u mg/L	0.010
Total Organic Halogen	0.010	u mg/L	0.010



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Date: Thursday May 17th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.030	u mg/L	0.030
Arsenic, Total	0.016	u mg/L	0.016
Beryllium, Total	0.0020	u mg/L	0.0020
Cadmium, Total	0.0040	u mg/L	0.0040
Chromium, Total	0.020	u mg/L	0.020
Copper, Total	0.020	u mg/L	0.020
Mercury, Total	0.00020	u mg/L	0.00020
Nickel, Total	0.020	u mg/L	0.020
Lead, Total	0.0027	u mg/L	0.0020
Antimony, Total	0.50	u mg/L	0.50
Selenium, Total	0.0080	u mg/L	0.0080
Thallium, Total	0.30	u mg/L	0.30
Zinc, Total	0.072	u mg/L	0.010



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Date: Friday May 11th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	10	U
Chloroethane	BDL	10	U
Methylene Chloride	12	5	
Acetone	62	10	
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	5	5	
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	6	5	
Acrolein	BDL	500	U
Acrylonitrile	BDL	100	U
Dichlorodifluoromethane	BDL	20	U
Trichlorofluoromethane	BDL	10	U
Bis(chloromethyl)ether	BDL	20	U
2-Chloroethylvinylether	BDL	10	U



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2417 Bond St., University Park, Illinois 60466
Phones: (708) 534-5200 (219) 885-7077 (815) 723-7533

ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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Date: Thursday May 10th, 1990

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Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

SEMICOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	12	U
bis(2-Chloroethyl)ether	BDL	12	U
2-Chlorophenol	BDL	12	U
1,3-Dichlorobenzene	BDL	12	U
1,4-Dichlorobenzene	BDL	12	U
1,2-Dichlorobenzene	BDL	12	U
bis(2-Chloroisopropyl)ether	BDL	12	U
N-Nitroso-Di-n-propylamine	BDL	12	U
Hexachloroethane	BDL	12	U
Nitrobenzene	BDL	12	U
Isophorone	BDL	12	U
2-Nitrophenol	BDL	12	U
2,4-Dimethylphenol	BDL	12	U
bis(2-Chloroethoxy)methane	BDL	12	U
2,4-Dichlorophenol	BDL	12	U
1,2,4-Trichlorobenzene	BDL	12	U
Naphthalene	BDL	12	U



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Lab ID: 9004G253-003
Sample Date: 04/27/90
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Units: UG/L

SEMICVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	12	U
4-Chloro-3-methylphenol	BDL	12	U
Hexachlorocyclopentadiene	BDL	12	U
2,4,6-Trichlorophenol	BDL	12	U
2-Chloronaphthalene	BDL	12	U
Dimethylphthalate	BDL	12	U
Acenaphthylene	BDL	12	U
2,6-Dinitrotoluene	BDL	12	U
Acenaphthene	BDL	12	U
2,4-Dinitrophenol	BDL	58	U
4-Nitrophenol	BDL	58	U
2,4-Dinitrotoluene	BDL	12	U
Diethylphthalate	BDL	12	U
4-Chlorophenyl-phenylether	BDL	12	U
Fluorene	BDL	12	U
4,6-Dinitro-2-methylphenol	BDL	58	U
N-Nitrosodiphenylamine (1)	BDL	12	U



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Date Received: 04/28/90
Units: UG/L

SEMICOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	12	U
Hexachlorobenzene	BDL	12	U
Pentachlorophenol	BDL	58	U
Phenanthrene	BDL	12	U
Anthracene	BDL	12	U
Di-n-Butylphthalate	BDL	12	U
Fluoranthene	BDL	12	U
Pyrene	BDL	12	U
Butylbenzylphthalate	BDL	12	U
3,3'-Dichlorobenzidine	BDL	23	U
Benzo(a)anthracene	BDL	12	U
Chrysene	BDL	12	U
bis(2-Ethylhexyl)phthalate	5	12	JB
Di-n-Octyl phthalate	BDL	12	U
Benzo(b)fluoranthene	BDL	12	U
Benzo(k)fluoranthene	BDL	12	U
Benzo(a)pyrene	BDL	12	U



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Date: Thursday May 10th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

SEMOVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	12	U
Dibenzo(a,h)anthracene	BDL	12	U
Benzo(g,h,i)perylene	BDL	12	U
1,2-Diphenylhydrazine	BDL	12	U
N-Nitrosodimethylamine	BDL	12	U
Benzidine	BDL	120	U



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Attn: Mr. Willy Pua

Date: Thursday May 10th, 1990

RE: Rinsate 2
Project # 2400-11-01-0000
Lab ID: 9004G253-003
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

Tentatively Identified Compounds

4 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention	Estimated
	Time	Concentration
Unknown	5.59	500 J
Unknown	27.36	10 JB
Unknown	30.81	40 JB
Unknown	35.03	40 JB



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Wednesday May 16th, 1990
RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Cyanide, Total	0.010	u mg/L	0.010
COD	5	u mg/L	5
Corrosivity	6.35	u mm/yr	6.35
Ammonia, as Nitrogen	0.10	u mg/L	0.10
Total Organic Carbon	1.0	u mg/L	1.0
TOC Test 2	1.0	u mg/L	1.0
pH	4.8	pH	+0.020
Phenol	0.0050	mg/L	0.0050
Sulfide	0.25	u mg/L	0.25
Total Organic Halogen	0.010	u mg/L	0.010
Total Organic Halogen	0.010	u mg/L	0.010



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ANALYTICAL REPORT

To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Thursday May 17th, 1990
RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 90046253-004
Sample Date: 04/27/90
Date Received: 04/28/90

Inorganic Client Data Report

Parameters	Result	Units	Reporting Limit
Silver, Total	0.030	u	mg/L
Arsenic, Total	0.016	u	mg/L
Beryllium, Total	0.0020	u	mg/L
Cadmium, Total	0.0040	u	mg/L
Chromium, Total	0.020	u	mg/L
Copper, Total	0.020	u	mg/L
Mercury, Total	0.00020	u	mg/L
Nickel, Total	0.020	u	mg/L
Lead, Total	0.0050		mg/L
Antimony, Total	0.50	u	mg/L
Selenium, Total	0.0080	u	mg/L
Thallium, Total	0.30	u	mg/L
Zinc, Total	0.013		mg/L



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To: AT & T/Bell Lab
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100 Corporate North, Suite 101
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Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90
Units: ug/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	10	U
Chloroethane	BDL	10	U
Methylene Chloride	BDL	5	U
Acetone	67	10	
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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Date: Friday May 11th, 1990

RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	6	5	
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	7	5	
Acrolein	BDL	500	U
Acrylonitrile	BDL	100	U
Dichlorodifluoromethane	BDL	20	U
Trichlorofluoromethane	BDL	10	U
Bis(chloromethyl)ether	BDL	20	U
2-Chloroethylvinylether	BDL	10	U



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Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

Tentatively Identified Compounds

No Volatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.



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Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

SEMICOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Phenol	BDL	10	U
bis(2-Chloroethyl)ether	BDL	10	U
2-Chlorophenol	BDL	10	U
1,3-Dichlorobenzene	BDL	10	U
1,4-Dichlorobenzene	BDL	10	U
1,2-Dichlorobenzene	BDL	10	U
bis(2-Chloroisopropyl)ether	BDL	10	U
N-Nitroso-Di-n-propylamine	BDL	10	U
Hexachloroethane	BDL	10	U
Nitrobenzene	BDL	10	U
Isophorone	BDL	10	U
2-Nitrophenol	BDL	10	U
2,4-Dimethylphenol	BDL	10	U
bis(2-Chloroethoxy)methane	BDL	10	U
2,4-Dichlorophenol	BDL	10	U
1,2,4-Trichlorobenzene	BDL	10	U
Naphthalene	BDL	10	U



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Sample Date: 04/27/90
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Units: UG/L

SEMICVOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Hexachlorobutadiene	BDL	10	U
4-Chloro-3-methylphenol	BDL	10	U
Hexachlorocyclopentadiene	BDL	10	U
2,4,6-Trichlorophenol	BDL	10	U
2-Chloronaphthalene	BDL	10	U
Dimethylphthalate	BDL	10	U
Acenaphthylene	BDL	10	U
2,6-Dinitrotoluene	BDL	10	U
Acenaphthene	BDL	10	U
2,4-Dinitrophenol	BDL	52	U
4-Nitrophenol	BDL	52	U
2,4-Dinitrotoluene	BDL	10	U
Diethylphthalate	BDL	10	U
4-Chlorophenyl-phenylether	BDL	10	U
Fluorene	BDL	10	U
4,6-Dinitro-2-methylphenol	BDL	52	U
N-Nitrosodiphenylamine (1)	BDL	10	U



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Units: UG/L

SEMICOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
4-Bromophenyl-phenylether	BDL	10	U
Hexachlorobenzene	BDL	10	U
Pentachlorophenol	BDL	52	U
Phenanthrene	BDL	10	U
Anthracene	BDL	10	U
Di-n-Butylphthalate	BDL	10	U
Fluoranthene	BDL	10	U
Pyrene	BDL	10	U
Butylbenzylphthalate	BDL	10	U
3,3'-Dichlorobenzidine	BDL	21	U
Benzo(a)anthracene	BDL	10	U
Chrysene	BDL	10	U
bis(2-Ethylhexyl)phthalate	6	10	JB
Di-n-Octyl phthalate	BDL	10	U
Benzo(b)fluoranthene	BDL	10	U
Benzo(k)fluoranthene	BDL	10	U
Benzo(a)pyrene	BDL	10	U



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Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

SEMICOLATIVES BY GC/MS, PRIORITY POLLUTANT LIST

Semivolatile Compound	Result	Detection Limit	Flag
Indeno(1,2,3-cd)pyrene	BDL	10	U
Dibenzo(a,h)anthracene	BDL	10	U
Benzo(g,h,i)perylene	BDL	10	U
1,2-Diphenylhydrazine	BDL	10	U
N-Nitrosodimethylamine	BDL	10	U
Benzidine	BDL	100	U



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RE: Rinsate 3
Project # 2400-11-01-0000
Lab ID: 9004G253-004
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

Tentatively Identified Compounds

3 Semivolatile Compounds greater than 10% of the nearest internal standard were tentatively identified by mass spectral library search. This is exclusive of any target compounds, surrogates or internal standards.

Semivolatile Compound	Retention Time	Estimated Concentration
Unknown	27.33	20 JB
Unknown	30.80	20 JB
Unknown	35.04	50 JB



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To: AT & T/Bell Lab
Roy F. Weston, Incorporated
100 Corporate North, Suite 101
Bannockburn, IL 60015

Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Trip Blank
Project # 2400-11-01-0000
Lab ID: 9004G253-005
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Chloromethane	BDL	10	U
Bromomethane	BDL	10	U
Vinyl Chloride	BDL	10	U
Chloroethane	BDL	10	U
Methylene Chloride	13	5	
Acetone	BDL	10	U
1,1-Dichloroethene	BDL	5	U
1,1-Dichloroethane	BDL	5	U
1,2-Dichloroethene (total)	BDL	5	U
Chloroform	BDL	5	U
1,2-Dichloroethane	BDL	5	U
1,1,1-Trichloroethane	BDL	5	U
Carbon Tetrachloride	BDL	5	U
Bromodichloromethane	BDL	5	U
1,2-Dichloropropane	BDL	5	U
cis-1,3-Dichloropropene	BDL	5	U
Trichloroethene	BDL	5	U



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Attn: Mr. Willy Pua

Date: Friday May 11th, 1990

RE: Trip Blank
Project # 2400-11-01-0000
Lab ID: 9004G253-005
Sample Date: 04/27/90
Date Received: 04/28/90
Units: UG/L

VOLATILES BY GC/MS, PRIORITY POLLUTANT LIST

Volatile Compound	Result	Detection Limit	Flag
Dibromochloromethane	BDL	5	U
1,1,2-Trichloroethane	BDL	5	U
Benzene	BDL	5	U
Trans-1,3-Dichloropropene	BDL	5	U
Bromoform	BDL	5	U
Tetrachloroethene	BDL	5	U
1,1,2,2-Tetrachloroethane	BDL	5	U
Toluene	BDL	5	U
Chlorobenzene	BDL	5	U
Ethylbenzene	BDL	5	U
Xylene (total)	BDL	5	U
Acrolein	BDL	500	U
Acrylonitrile	BDL	100	U
Dichlorodifluoromethane	BDL	20	U
Trichlorofluoromethane	BDL	10	U
Bis(chloromethyl)ether	BDL	20	U
2-Chloroethylvinylether	BDL	10	U